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TITLE:

WATER INK COMPOSITION FOR BALL POINT PEN

PUBN-DATE:

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INVENTOR-INFORMATION:

NAME

KOSAKA, TETSUO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

MITSUBISHI PENCIL CO LTD

N/A

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INT-CL (IPC): C09D011/18

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ABSTRACT:

PURPOSE: The titled composition with good transfer printing property to a paper surface and high writing performance smoothly supplied without paper, which contains a humic acid, a nitrohumic acid or a mixture thereof.

CONSTITUTION: A humic acid (A) of MW 10<SP>3</SP>∼10<SP>6</SP> having a representative molecular structure of formula II, and having an active group of formula I, a nitrohumic acid (B) of MW 10<SP>2</SP>∼10<SP>5</SP> having an active group of formula III and a representative molecular structure of formula

IV, or a mixture of components A and B, is incorporated in a water

composition prepared by compounding an aqueous solvent primarily

consisting of
water in which 5∼20wt% water-soluble polyhydric alcohol is
incorporated,
with a water-soluble dye, an antiseptic and, if necessary, an anionic or
nonionic surfactant, a water-soluble resin, etc.

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